

DKIM Sender Signing Policy **X** Practices

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12 July 2006

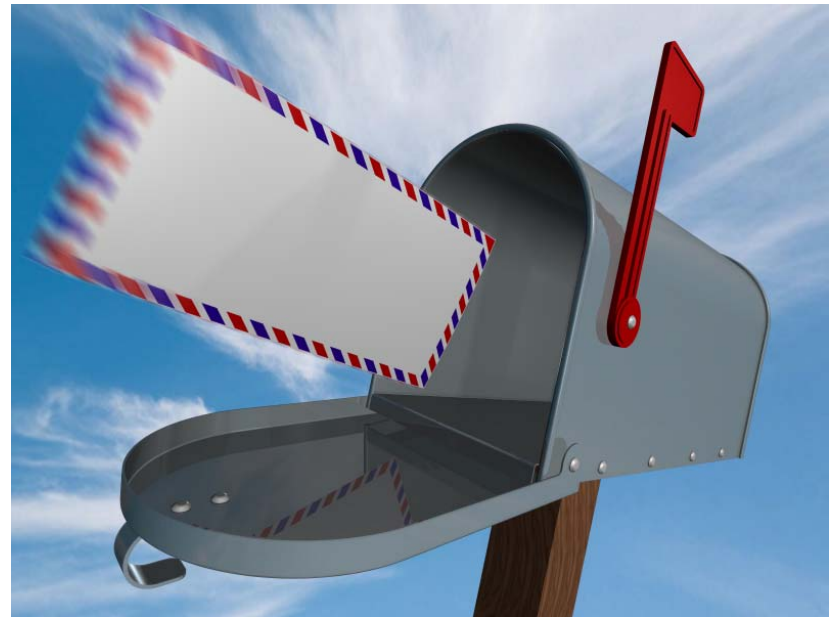
SSP: The Problem

- **“I got a message that is unsigned. How do I know if it is legitimate?”**



What About Unsigned Messages?

- **Does the author's domain:**
 - Send mail?**
 - Sign all their mail?**
- **If these practices are inconsistent with the received message, it's "suspicious"**



Suspicious

- **Messages that aren't consistent with author's practices**
- **Intentionally vague – doesn't say anything about what to do**



Third Parties

- **Messages can be signed by other than the author's domain**

Mailing lists that modify messages

“Mail this article to a friend” applications

- **Author [domain] may avoid such agents**

- **“No third-party” practice reflects this**

Usable by only a few high-value domains

Example: mail from banks to customers

Caveats

- **Some legitimate messages will likely be suspicious**
Messages through lists that munge messages and don't re-sign them
- **It's probably not good to over-react to suspicious messages**
Deleting them outright

Finding the SSP

- **SSP is found using the From address in the message**
- **example.com SSP is located at `_policy._domainkey.example.com`**
- **SSP lookup is not needed if a valid origination address signature is found**

SSP only offers information that is relevant in its absence

Defined Practices*

Symbol	Proposed Name	Meaning
~	NEUTRAL	Signs some mail
-	STRONG	Signs all mail
!	EXCLUSIVE	Signs all mail; third-party signatures should not be considered valid
.	NEVER	Entity never sends mail
^	USER	Repeat query at user level

* As of draft-allman-dkim-ssp-01

Open questions

- **How DKIM-specific should SSP be?**
Mailing practices? Broader messaging practices?
- **Location and form of SSP**
Prefixed DNS TXT record [current draft] Syntax?
New DNS resource record, probably without prefix
- **Other policies?**
Name other domains that send mail on author's behalf
“I don't sign anything”
“I don't sign everything, but don't accept third-party sigs”

More open questions

- **User-level practices**
 - Useful?
 - Out-of-scope and costly?
- **Reporting address**
 - Local-part only to avoid abuse?
 - Inappropriate and likely to be abused?

